GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA

UNSTARRED QUESTION NO:1308
ANSWERED ON:09.02.2017
Reduction in Size of Photovoltaic Panels
Reddy Shri Ponguleti Srinivasa

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether the Union Government is planning to introduce sophisticated technology to reduce the size of photovoltaic panels, which generates same amount of power and occupies less space in a bid to overcome the challenge of scarcity of land for further expansion of solar power Industry;

(b) if so, the details thereof;

(c) whether the Union Government has taken any steps for technological upgradation of solar panels/appliances to be synchronized with solar irradiance: and

(d) if so, the details thereof?

Answer

THE MINISTER OF STATE (IC) FOR POWER, COAL, NEW & RENEWABLE ENERGY AND MINES (SHRI PIYUSH GOYAL)

(a): Ministry of New & Renewable Energy (MNRE) is supporting an R&D schemes under which the efforts are being made to make the more efficient Solar cells/Solar module to generate more power with same area. MNRE has sanctioned several R&D projects for development of high efficiency solar cells which will require less area for deployment of the PV modules.

(b): The details of R&D projects are given in the Annexure.
(c) & (d): The grid tied inverters being used in the PV power plants to fed the power to the grid are of high quality with total harmonic distortion (THD) < 3 % and overall system efficiency including Maximum Power Point Tracking (MPPT) >96%. There is no problem of synchronization due to solar irradiance.
****